Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

(Currently Amended) A method-(800) for improving a quality of a scalable video
object plane enhancement layer transmission over an error-prone network, the enhancement layer
transmission including at least one re-synchronisation marker followed by a Video Packet
Header and header extensions, the method comprising the steps of:

replicating a reference VOPs' identifier from a video object plane header into a number of enhancement layer header extensions 4715):

recovering (830, 840, 850, 860) from an error corrupting said reference VOPs' identifier by decoding a correct reference VOPs' identifier from subsequent enhancement layer header extensions and estimating a reference VOPs' identifier when an error has occurred in the reference VOPs' identifier: and

identifying (870, 880) correct reference video object planes to be used in a reconstruction of an enhancement layer video object plane in the scalable video transmission;

wherein the scalable video object plane enhancement layer transmission is based on an MPEG-4 scalable video object plane enhancement layer transmission, and the reference VOP's identifier is a 'ref_select_code' field-(715).

2. (Currently Amended) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network according to claim 1, wherein the step of recovering further includes the steps of:

estimating (830) a reference-VOPs' identifier when an error has occurred in the reference VOPs' identifier.

decoding (840) the video object plane enhancement layer transmission until a video object plane enhancement layer header extensions is decoded; and

correcting (859) said estimated reference VOPs' identifier in response to a reference VOPs' identifier extracted from said decoded header extensions

3. (Currently Amended) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error prone network according to claim 1, wherein the step of recovering includes the steps of A method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network, the enhancement layer transmission including at least one re-synchronisation marker followed by a Video Packet Header and header extensions, the method comprising the steps of:

replicating a reference VOPs' identifier from a video object plane header into a number of enhancement layer header extensions:

recovering from an error corrupting said reference VOPs' identifier by decoding a correct reference VOPs' identifier from subsequent enhancement layer header extensions and buffering video object plane enhancement layer transmission bits, until a video object plane enhancement layer header extensions is decoded, when an error has occurred in the reference VOPs' identifier; and

identifying correct reference video object planes to be used in a reconstruction of an enhancement layer video object plane in the scalable video transmission;

wherein the scalable video object plane enhancement layer transmission is based on an MPEG-4 scalable video object plane enhancement layer transmission, and the reference VOP's identifier is a 'ref select code' field

correcting (870) said reference VOP's identifier in response to a reference VOPs' identifier extracted from said decoded header extensions.

4. (Currently Amended) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network according to claim 1, further comprising the step of:

selecting (870, 880) a correct reference VOP's identifier to decode subsequent enhancement layer transmissions.

- 5. (Currently Amended) A video communication system-(600) comprising:
- a video encoder (615) comprising:
- a processor for encoding a scalable video sequence having a plurality of enhancement layers, wherein the enhancement layer transmission includes at least one resynchronisation marker followed by Video Packet Header and header extensions;
- replicating means for replicating a reference VOP's identifier from a video object plane header into a number of enhancement layer header extensions (715); and
- a transmitter for transmitting said scalable video sequence containing said one or more reference VOPs' identifier; and
 - a video decoder-(625) comprising:
- a receiver for receiving said scalable video sequence containing said video object plane enhancement layer header extensions (715) from said video encoder;
- a detector detecting one or more errors in said reference VOP's identifier in an enhancement layer of said received scalable video sequence; and
- a processor operably coupled to said detector for recovering (830, 840, 850, 860) from an error corrupting said reference VOPs' identifier by decoding a correct reference VOPs identifier from subsequent enhancement layer header extensions when said one or more errors is detected, estimating a reference VOPs' identifier when an error has occurred in the reference VOPs' identifier, and identifying (870, 880) correct reference video object planes to be used in a reconstruction of an enhancement layer video object plane in the scalable video transmission:
- wherein the scalable video object plane enhancement layer transmission is based on an MPEG-4 scalable video object plane enhancement layer transmission, and the reference VOPs' identifier is a 'ref select code' field-(715).
- (Currently Amended) A video communication unit (615, 625) adapted for use in the method of claim 1.
 - 7. (Currently Amended) A video encoder-(615) adapted for use in the method of claim 1.
 - 8. (Currently Amended) A video decoder-(625) adapted for use in the method of claim 1.

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 (Previously Presented) A mobile radio device comprising a video communication unit in accordance with claim 6.

- 10. (Original) A mobile radio device according to claim 9, wherein the mobile radio device is a mobile phone, a portable or mobile PMR radio, a personal digital assistant, a lap-top computer or a wirelessly networked PC.
- 11. (Previously Presented) A video communication unit adapted for use in the communication system of claim 5.
- (Previously Presented) A video encoder adapted for use in the communication system of claim 5.
- 13. (Previously Presented) A video decoder adapted for use in the communication system of claim 5
- 14. (Previously Presented) A mobile radio device comprising a video encoder in accordance with claim 7.
- 15. (Previously Presented) A mobile radio device comprising a video decoder in accordance with claim 8
- 16. (New) The method for improving a quality of a scalable video object plane enhancement layer transmission over an error-prone network according to claim 3, wherein the step of recovering includes the steps of:

correcting said reference VOP's identifier in response to a reference VOPs' identifier extracted from said decoded header extensions.

- 17. (New) A video communication system comprising:
- a video encoder comprising:
- a processor for encoding a scalable video sequence having a plurality of enhancement layers, wherein the enhancement layer transmission includes at least one re-synchronisation marker followed by Video Packet Header and header extensions;

replicating means for replicating a reference VOP's identifier from a video object plane header into a number of enhancement layer header extensions; and a transmitter for transmitting said scalable video sequence containing said one or more reference VOPs' identifier; and

a video decoder comprising:

a receiver for receiving said scalable video sequence containing said video object plane enhancement layer header extensions from said video encoder;

a detector detecting one or more errors in said reference VOP's identifier in an enhancement layer of said received scalable video sequence; and

a processor operably coupled to said detector for recovering from an error corrupting said reference VOPs' identifier by decoding a correct reference VOPs' identifier from subsequent enhancement layer header extensions when said one or more errors is detected, buffering video object plane enhancement layer transmission bits, until a video object plane enhancement layer header extensions is decoded, when an error has occurred in the reference VOPs' identifier, and identifying correct reference video object planes to be used in a reconstruction of an enhancement layer video object plane in the scalable video transmission,

wherein the scalable video object plane enhancement layer transmission is based on an MPEG-4 scalable video object plane enhancement layer transmission, and the reference VOPs' identifier is a 'ref' select code' field.